DECLARATION OF
BENJAMIN
KORNACKI ISO
GOOGLE LLC'S
MOTION FOR
RELIEF
REGARDING
PRESERVATION

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UNITED STATES DISTRICT COURT 1 NORTHERN DISTRICT OF CALIFORNIA, OAKLAND DIVISION 2 3 CHASOM BROWN, et al., on behalf of 4 themselves and all others similarly situated, 5 Plaintiffs, Case No. 4:20-cv-03664-YGR-SVK 6 VS. 7 GOOGLE LLC, 8 Defendant. 9 PATRICK CALHOUN, et al.on behalf of themselves and all others similarly situated, 10 Plaintiffs, Case No. 4:20-cv-05146-YGR-SVK 11 VS. 12 GOOGLE LLC, 13 Defendant. 14 15 16 **DECLARATION OF BENJAMIN KORNACKI** 17 I am a Software Engineer employed by Google LLC. I have been employed at Google 1. 18 since January 2013, and since then have been a member of the Ad Manager Reporting & Insights 19 Team. In my capacity as a member of the Ad Manager Reporting & Insights Team, I am responsible 20 for building pipelines to digest historical data and produce analytics and insights to our customers. 21 As part of my duties, I am familiar with the tools available at Google to access, search, and store 22 Ads logs. I make this declaration based on personal knowledge and data in Google's 23 information provided to me by Google colleagues, and if called to testify, I could and would 24 competently testify to such facts.

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2. I understand the Court issued preservation orders in the above-captioned cases, requiring that Google preserve data in Ads logs, among other data sources. I understand the Court has ordered a daily "sample" preservation of data for 10,000 U.S.-based users in separate Ads log sources for the *Brown* and *Calhoun* cases, and a "full ongoing Case No. 4:20-cv-03664-YGR-SVK Case No. 4:20-cv-05146-YGR-SVK

preservation" of specific fields from Ads log sources for the *Calhoun* case. I understand that the Court has also ordered Google to establish a process to decrypt data that is encrypted using the re-encrypt the data in a safe and secured manner using a new key created exclusively for this purpose, and preserve the new encryption key for the duration of the litigation.

- 3. I further understand that Google was required to design and implement the data sampling pipeline for Ads logs by August 15, 2022, to design and implement the decryption/re-encryption pipeline by August 29, 2022, and to complete the backfill of sampled log data going back to July 27, 2016 by September 28, 2022.
- 4. We have successfully designed and implemented the aforementioned preservation and decryption/re-encryption pipelines and completed the backfill of historical Ads data. To comply with the preservation orders, I, along with two other engineers on the Ad Manager Reporting & Insights Team spent more than hours designing, scoping, configuring, implementing, testing, optimizing, debugging, and verifying data preservation and backfill pipelines. Going forward, those pipelines will require continuous monitoring, maintenance, and debugging, which I estimate will take at least hours per week.
- 5. The preservation tasks have significantly disrupted my and the other two engineers' regular job duties, which impact Google's ability to maintain existing systems and develop new products in a timely manner. For the past several months, I worked almost exclusively on designing and implementing pipelines necessary to meet the Court's orders, and was able to devote no more than hours per week to my team's regular job duties.
- 6. The work required to implement the Court's preservation orders requires not only general knowledge of Google's systems and tools, but also specialized knowledge of pipelines and tools to digest historical data and the logs at issue in these cases.
- 7. To implement the required backfilling of data and preserve historical data for both the *Brown* and *Calhoun* matters in Ads log sources, the preservation pipelines that we designed had to read and process tens of exabytes of historical data to extract the sampled and field-based preservation data.

